	EN8909	CAD/CAM	بوليتكنك البدرين Bahrain Polutechnic
Course Aim	To enable students to analyze engineering components and solve engineering problems using computer aided design tools and to effectively use protocols created for the CNC machine code and to test using computer simulations .		
Short Title Faculty Credits Pre-requisites Co-requisites Anti-requisites	EDICT 15 60 Credits at level 7 in BEngTech (Mechanical) and EN6904 (or ENB! None None	Version Effective From Indicative NQF Leve Student Contact hr Self-directed hr 5904) Other directed hr Total learning hr	n 2 September 1, 2016 8 rs 60 rs 90 rs 150
Learning Outcomes	On successful completion of th 1 Use specialist CAD (computer ai creation methods and technique	or: NQF Sub-strand ometry feature Practical models. Application of knowledge	
	<ol> <li>Analyse components using infine element analysis for structural, nutuant thermal problems, and critically analyse the solution to carry out design modification.</li> <li>critically analyze the concept of FMS (Flexible manufacturing system) and CIMS (Computer Integrated Manufacturing Systems)</li> <li>Integrate CAD/CAM tools and develop and synthesize APT (Automatically Programmed Tool) programming for machining</li> </ol>		t design Application of knowledge tem) and CIMS Theoretical Understanding matically Theoretical Understanding